

PHOSPHOR FOR PHOSPHOR-CONVERTED SEMICONDUCTOR LIGHT EMITTING DEVICE

ABSTRACT OF THE DISCLOSURE

A semiconductor light emitting device comprising a light emitting layer configured to emit light of a first wavelength disposed between an n-type region and a p-type region is combined with a cerium-doped garnet phosphor having a wider excitation spectrum than conventional cerium-doped garnet phosphors. In some embodiments, the phosphor has a cerium concentration between about 4 mol% and about 8 mol%.